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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET N	O. CONFIRMATION NO.
10/631,220		07/30/2003	Richard T: Howard	MFS-31843-1 3295	
30698	7590	04/20/2006		EXAMINER	
		L SPACE FLIGHT	LEPISTO, RYAN A		
LSO1/OFFICE OF CHIEF COUNSEL MSFC, AL 35812			ART UNIT	PAPER NUMBER	
0,					

DATE MAILED: 04/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	• •
	10/631,220	HOWARD, RICHARD	T.
Office Action Summary	Examiner	Art Unit	
	Ryan Lepisto	2883	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	5
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MON tute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this commur BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>08</u>	<u> March 2006</u> .		
,	his action is non-final.		
3) Since this application is in condition for allow			rits is
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.L	). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) 3,5,12 and 14 is/are pending in the	application.		
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5)⊠ Claim(s) <u>12 and 14</u> is/are allowed.			
6)⊠ Claim(s) <u>3 and 5</u> is/are rejected.			
7) Claim(s) is/are objected to.	Maria de altra e la servicio de antesant		
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	iner.		
10)⊠ The drawing(s) filed on 30 July 2003 is/are:	a) accepted or b) ⊠ object	cted to by the Examiner.	
Applicant may not request that any objection to t	he drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr			
Priority under 35 U.S.C. § 119		•	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documed 2. Certified copies of the priority documed 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a light series.	ents have been received. ents have been received in A riority documents have beer eau (PCT Rule 17.2(a)).	Application No n received in this National Stag	je
Attachment(s)  1) \( \sum \) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No.	(s)/Mail Date Informal Patent Application (PTO-152	<b>N</b>
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 7/36/03   1/31/05	08) 5) Notice of 6) Other:		,

Application/Control Number: 10/631,220 Page 2

Art Unit: 2883

#### **DETAILED ACTION**

### **Drawings**

- 1. Figures 1-2, 3A, 3B, 4A, 4B, 5A and 5B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 501. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

Application/Control Number: 10/631,220 Page 3

Art Unit: 2883

the applicant will be notified and informed of any required corrective action in the next Office action.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Kayoun (US 4,406,732). Kayoun teaches an optical fiber (Figs. 3-4) for transporting a beam of light form a laser light source (column 4 lines 62-63) and projecting the beam towards a target (column 6 lines 39-41) comprising an input end for receiving the beam (not shown), an exit end (Figs. 3-4) having a continuous multi-level optical bowl pattern (Fig. 3, column 7 lines 6-10) formed thereon by etching (column 4 lines 65-68) wherein the pattern provides a relatively even illumination pattern across the target as evidence by the intensity plot of Fig. 10.

## Allowable Subject Matter

4. Claims 12 and 14 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

With regard to claim 12: This claim is allowable over the prior art of record because the latter, either alone or in combination, does not disclose nor render obvious a system for recording images using a camera comprising a plurality of laser emitting diodes, a plurality of optical fibers coupled to the diodes at one end and having an exit end with a binary or multi-level diffractive pattern formed on it wherein the exit ends of the fibers are arranged in a circular fashion around the camera so the light emitted from each diode travels through the fibers and is projected on a target after passing through the diffractive pattern to illuminate a an even rectangular pattern across a target, in combination with the rest of the claimed limitations.

With regard to claim 14: This claim is allowable over the prior art of record because it depends on an allowed claim.

#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-Th 7:30AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/631,220

Art Unit: 2883

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan Lepisto

Frank Font

Art Unit 2883

Supervisory Patent Examiner

Page 5

Date: 4/3/06

Technology Center 2800

Frank & Font